

ABSTRACT OF THE DISCLOSURE

5 Porous hexagonal, cubic, lamellar, wormhole,  
or cellular foam aluminosilicates, gallosilicates and  
titanosilicates derived from protozeolitic seeds or  
zeolite fragments using an organic porogen directing  
agent are described. The porous aluminosilicates  
optionally also can contain zeolite crystals depending  
upon the aging of the protozeolitic seeds. The silicon  
and aluminum, gallium or titanium centers in the  
10 structures are stable so that the framework of the  
structure does not collapse when heated in the presence  
of water or water vapor (steam). The steam stable  
compositions can be used as catalysts for hydrocarbon  
conversions, including the fluidized bed catalytic  
15 cracking and the hydrocracking of petroleum oils, and  
other reactions of organic compounds.